

This is to verify that **Marcel Ray Duriez** has completed the course **Advanced Diploma in Design of Steel Structures** on Alison.

Marcel Ray Duriez

Alison ID: 5952157

Course Completed: Advanced Diploma in Design of Steel Structures

Date Of Completion: 24th May 2025

Email ID: duriez19@gmail.com

Total Study Time: 1h 18m



Scan To Verify

Final Assessment Score:

Alison courses requires at least
80% to pass the final assessment

85%

CPD Hours Completed:

CPD approved learning hours
completed through this course

1-2h

Course Information

In this free online Advanced Diploma Course on Design of Steel Structures, you will be exposed to the steps in designing suitable members and connections for steel structures, with examples to demonstrate such designs. This online training course begins with explaining the importance of steel as a structural material and how to design the various types of bolt and weld connections. You will then learn about the process of designing eccentric connections with load lying on the bolt or weld connection.

This free course on Structural Steel Design will then proceed to teach you the design procedures for tension and compression members. You will then learn about the steps in designing lacing systems and batten plates. You will also be learning how to design laterally supported beams and unsupported beams. Lastly, you will learn how to design a gantry girder for an overhead crane system as well as suitable column based steel structures.

Furthermore, the modules of this course provide worked-out examples and diagrams to illustrate the steps in designing the various members and connections of steel structures, in order to guide structural designers in designing suitable and economical steel structures. So, if you are interested in civil engineering or you are a structural designer, engineer, or one who wants to get advanced insights on how steel structural members and connections are designed, this course is for you. Start this training course today, to get profound understanding on how to economically design steel structures members and connections without compromising the quality of the structure.

Modules Studied

Module 1: Overview of Design of Steel Structures

Module 2: Bolt Connections

Module 3: Weld Connections

Module 4: Eccentric Connections

Module 5: Tension Members

Module 6: Design of Tension Members and Connectors

Module 7: Advanced Diploma in Design of Steel Structures - First Assessment

Module 8: Compression Members

Module 9: Design of Compression Members and Lacing Systems

Module 10: Design of Batten Plates and Column Splices

Module 11: Laterally Supported Beams

Module 12: Laterally Unsupported Beams

Module 13: Purlins and Gantry Girders

Module 14: Column Bases

Module 15: Advanced Diploma in Design of Steel Structures - Second Assessment

Module 16: Course assessment